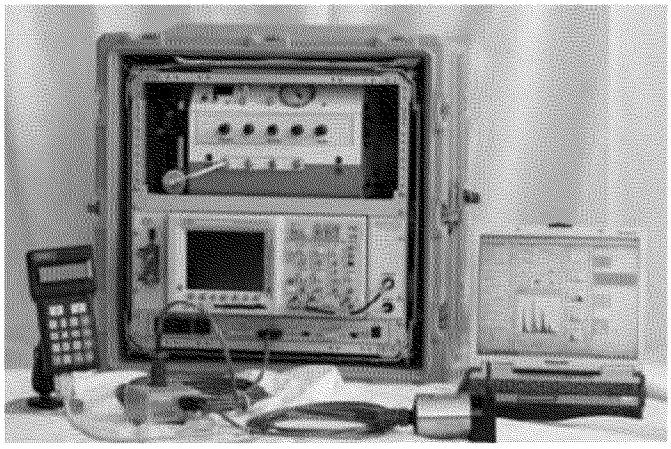
CASCADE
DRILLING | TECHNICAL SERVICES

UVOST®

Ultra-Violet Optical Screening Tool

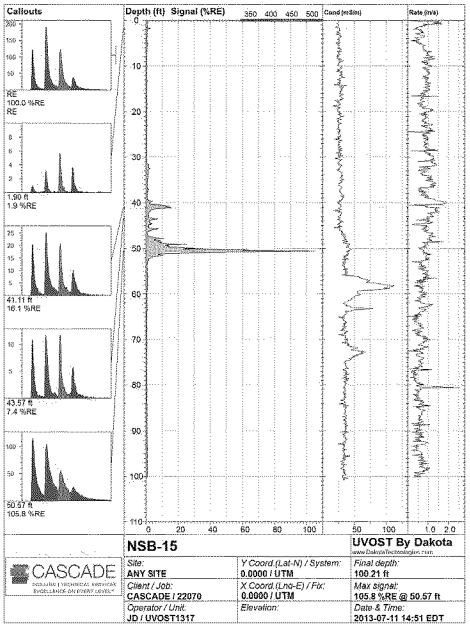
The Ultra-Violet Optical Screening Tool (UVOST®) is used to reliably delineate nearly any petroleum NAPL including gasoline, diesel, crude oil, kerosene, and many others.

It can be deployed by any type of direct push platform. UVOST® is simply the world's finest commercial laser-induced fluorescence (LIF) system and it was built to do one thing – find petroleum NAPL.



How the UVOST Works

The UVOST® system uses a sapphire window in the side of the direct push probe to measure front-face fluorescence of the petroleum NAPL as the probe is advanced into the soil with nearly any Direct Push Track (DPT) platform. Poly Aromatic Hydrocarbons (PAH) fluorescence of fuels/oils is directed back to the surface where it is analyzed. Responses are indicated in real-time on a graph of UVOST® signal vs. depth.



Successful remediation and treatment systems UVOST® Data—Conceptual Site Model (CSM) require detailed knowledge of NAPL location and distribution. UVOST® provides your client with a conceptual site model at unprecedented speed, detail, and efficiency. Sampling simply can't compete with UVOST®'s production rates. Since the first full-scale site characterization project with UVOST® LIF technology in 1997, the UVOST® system has been successfully applied and validated across a wide range of site conditions and deployment platforms, including Geoprobe and CPT. Nearly every major consulting firm in the U.S. has used UVOST® to generate CSMs of petroleum NAPL.